Fig. 1a

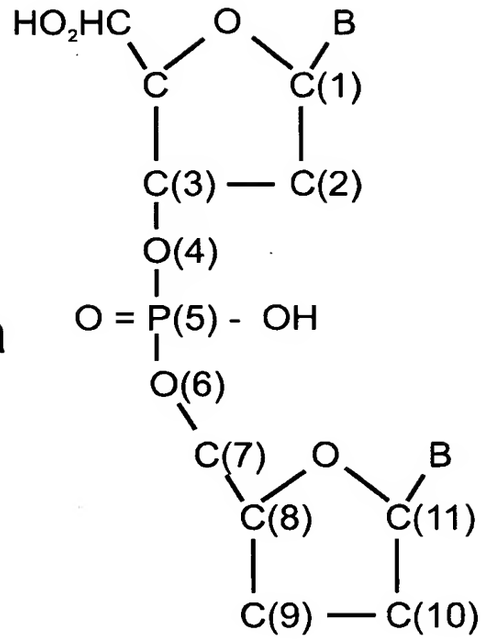
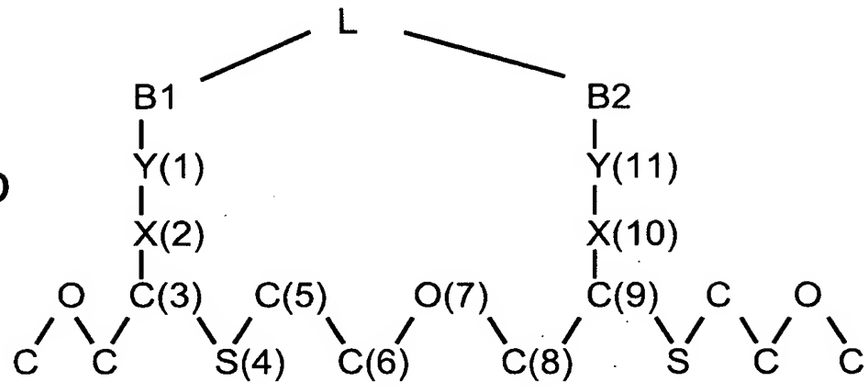


Fig. 1b



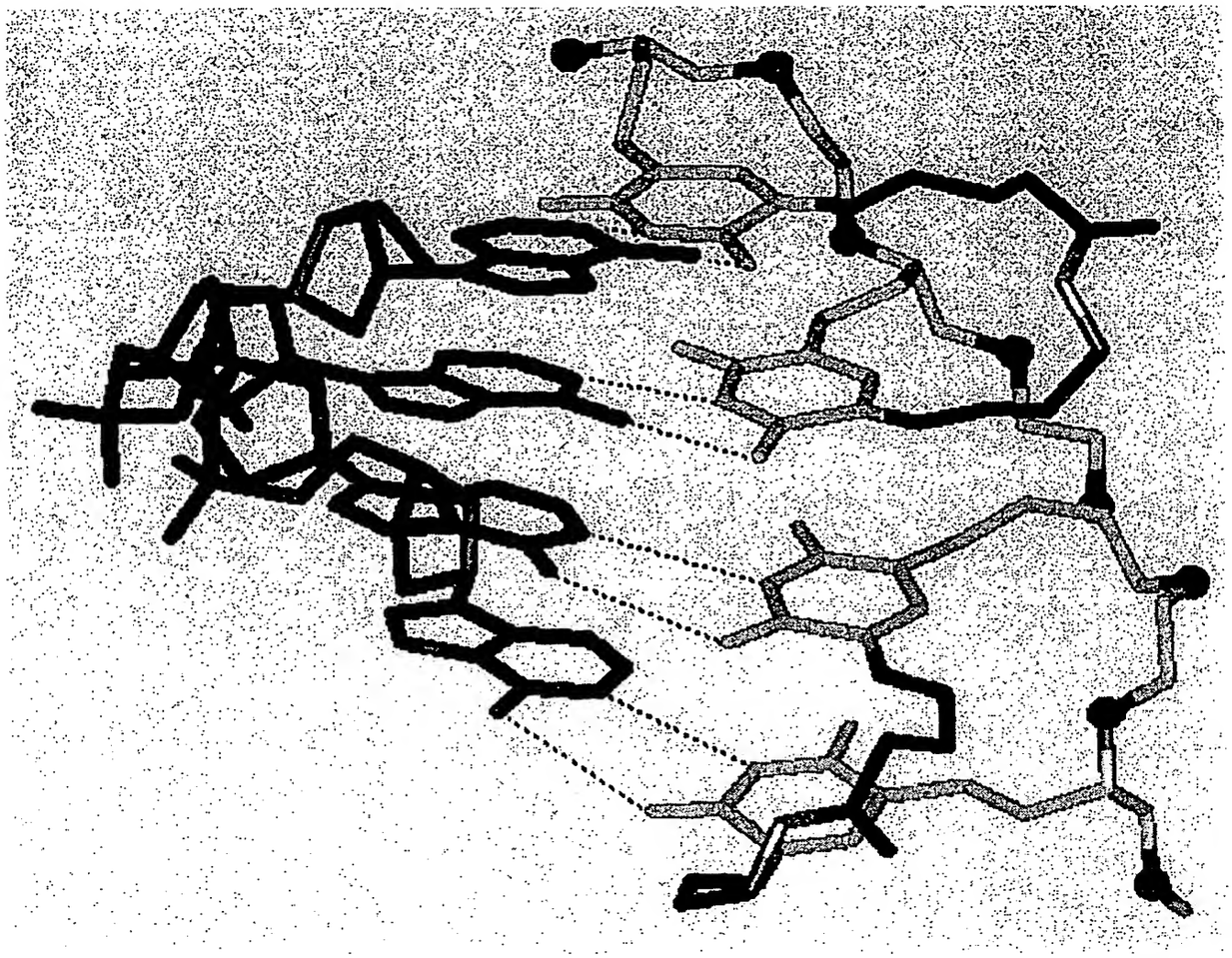
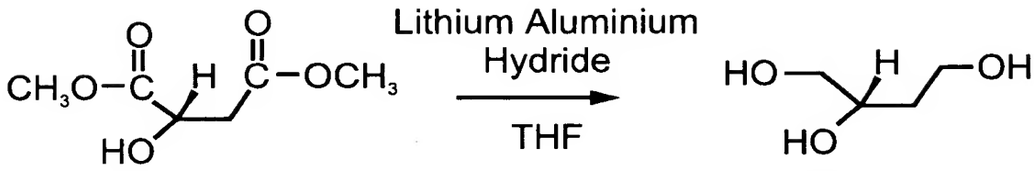
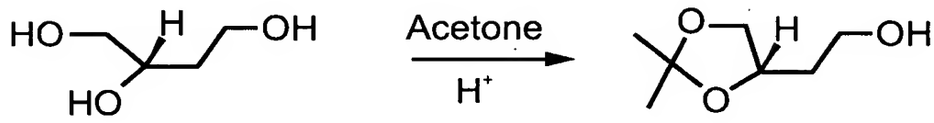


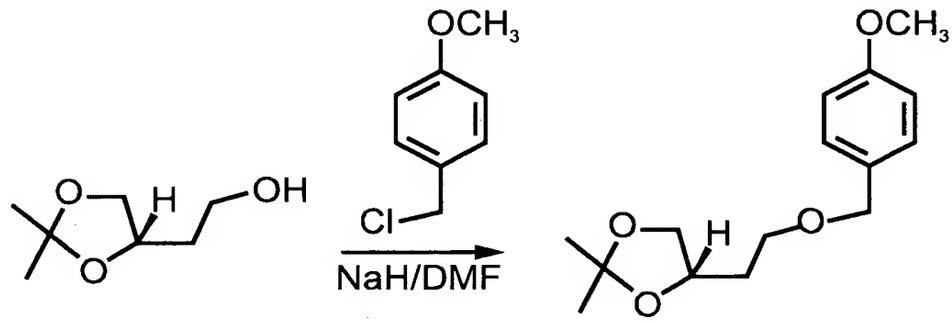
Fig. 2



Compound 1

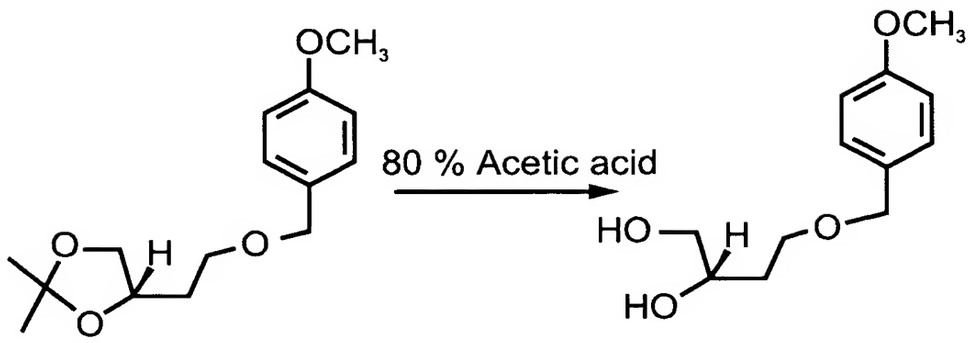


Compound 2

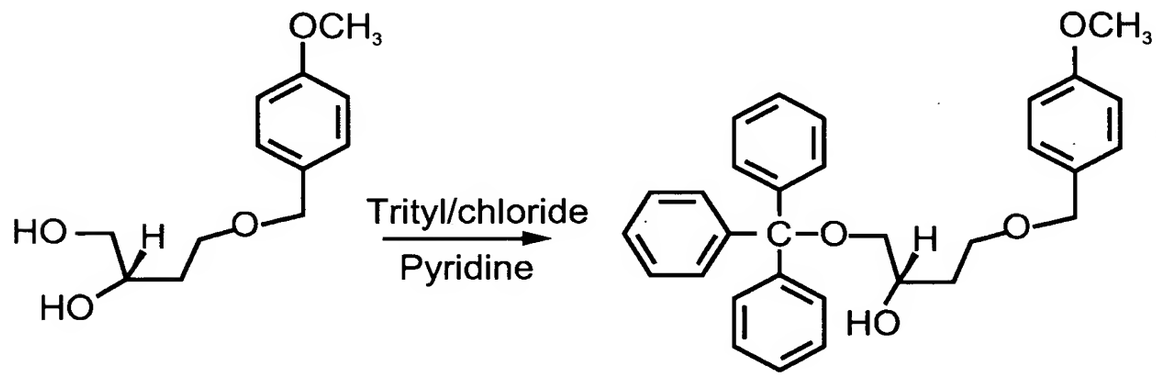


Compound 3

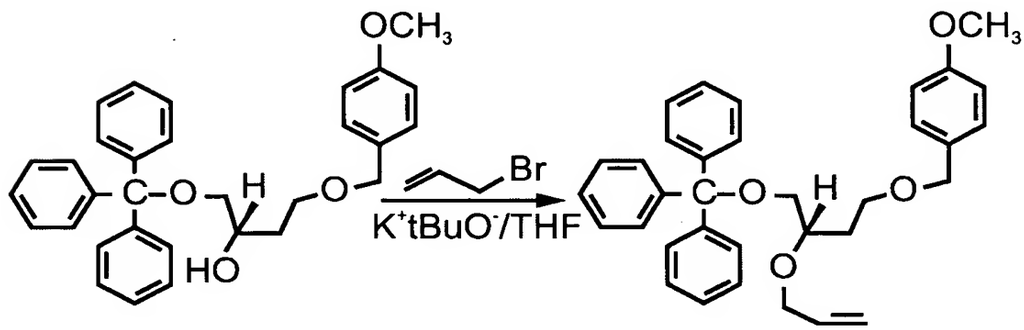
Fig. 3(i)



Compound 4

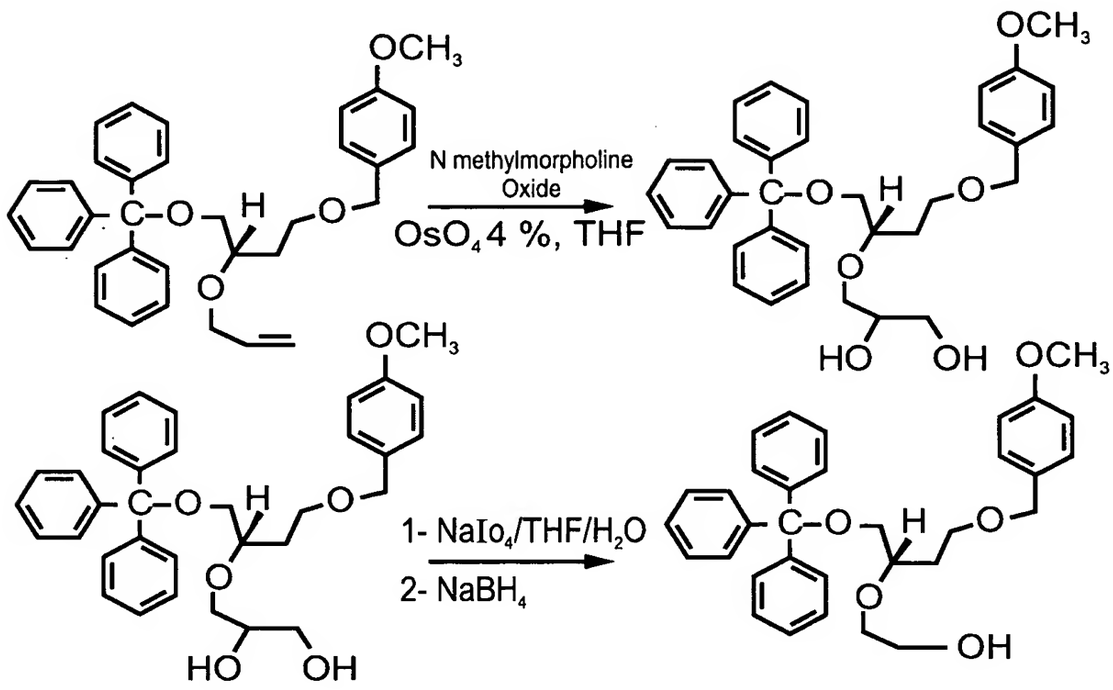


Compound 5

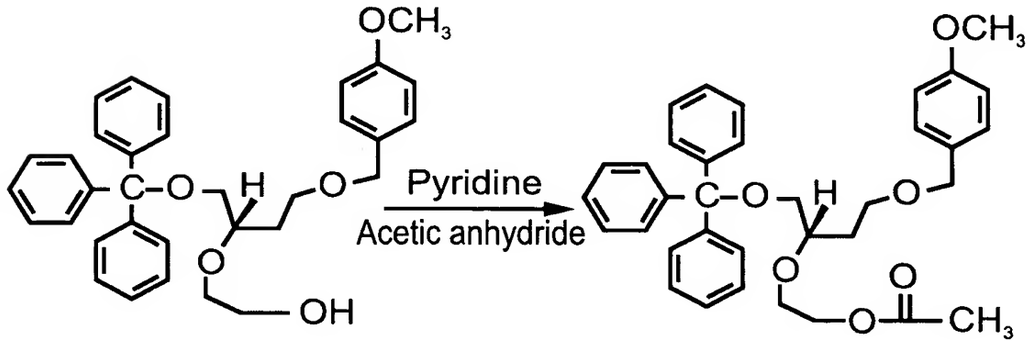


Compound 6

Fig. 3(ii)

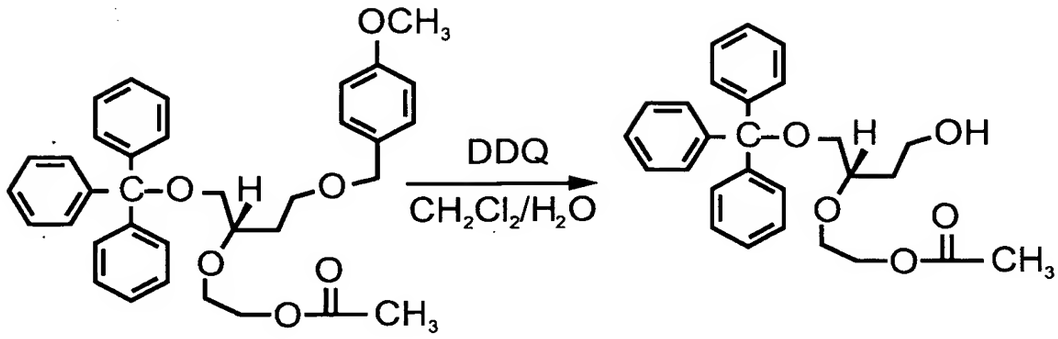


Compound 7



Compound 8

Fig. 3(iii)



Compound 9

Fig. 3(iv)

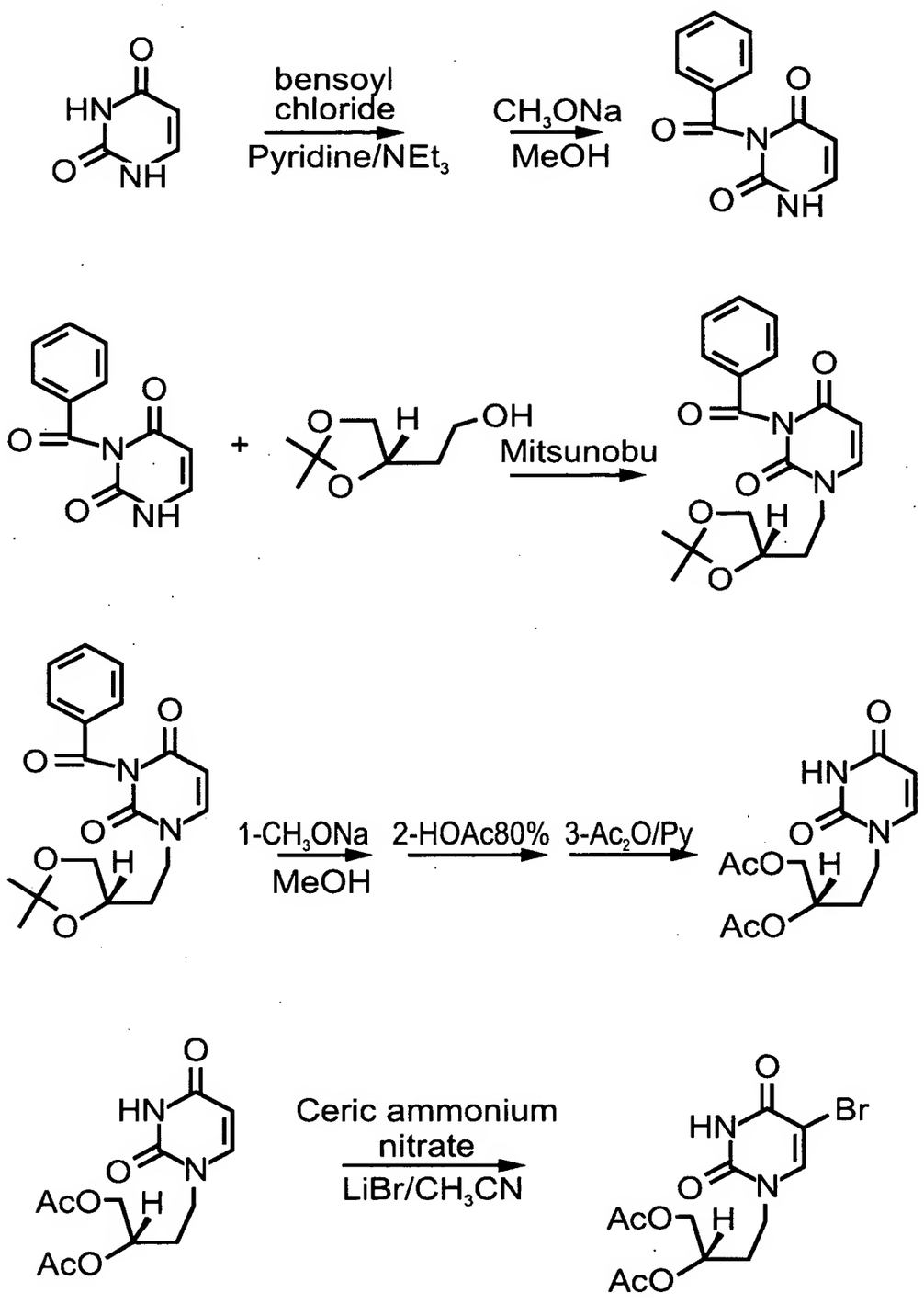

bensoyl chloride
Pyridine/NEt3
CH3ONa
MeOH
Mitsunobu
1-CH3ONa
MeOH
2-HOAc80%
3-Ac2O/Py
Ceric ammonium nitrate
LiBr/CH3CN

Fig. 4a(i)

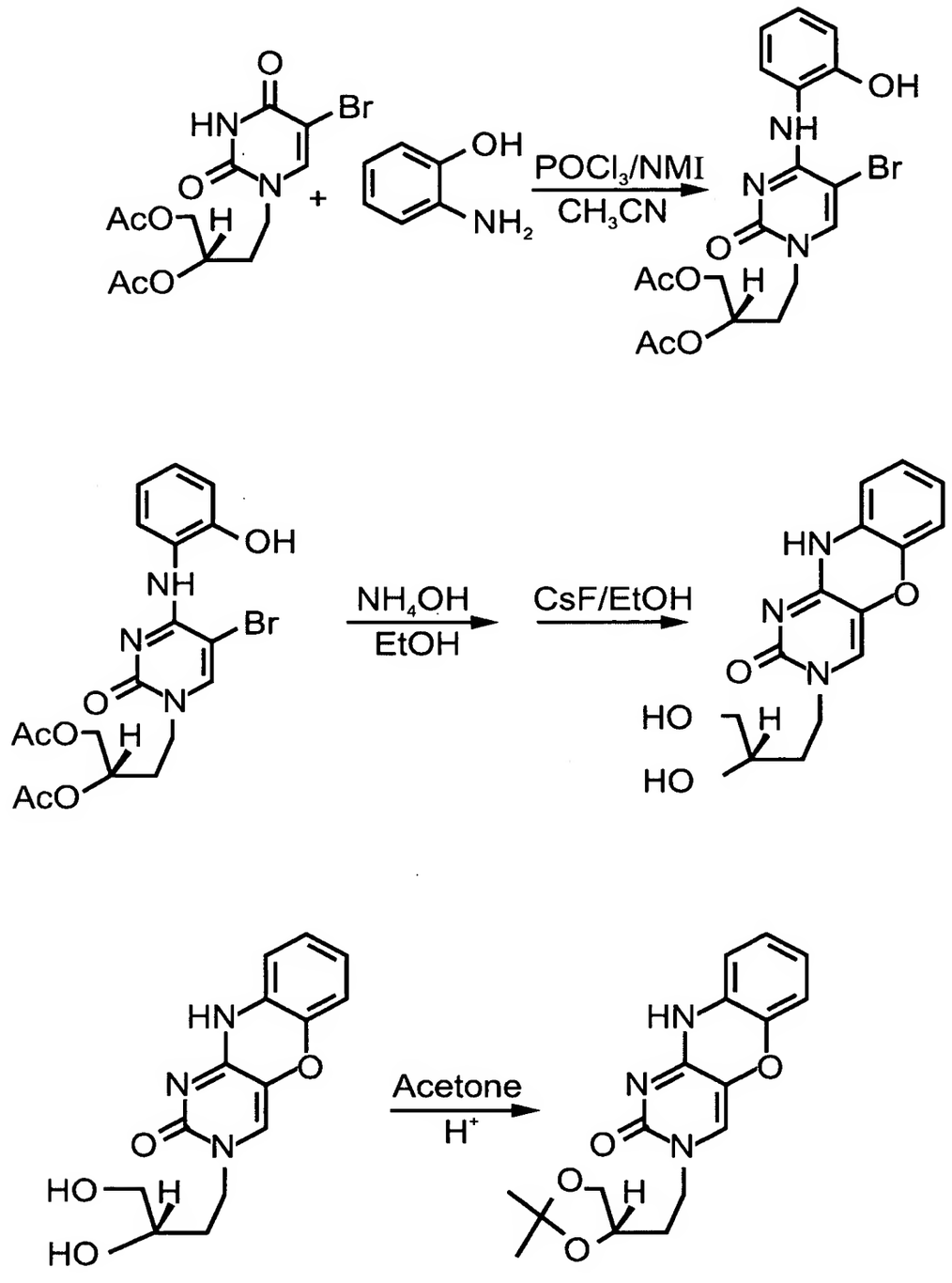

O
HN
Br
O
N
AcO
H
AcO
+
OH
NH2
POCl3/NMI
CH3CN
OH
NH
Br
N
O
N
AcO
H
AcO
OH
NH
Br
N
O
N
AcO
H
AcO
NH4OH
EtOH
CsF/EtOH
HN
O
N
O
N
HO
H
HO
HN
N
O
N
HO
H
HO
Acetone
H+
HN
N
O
N
O
H
O

Fig. 4a(ii)

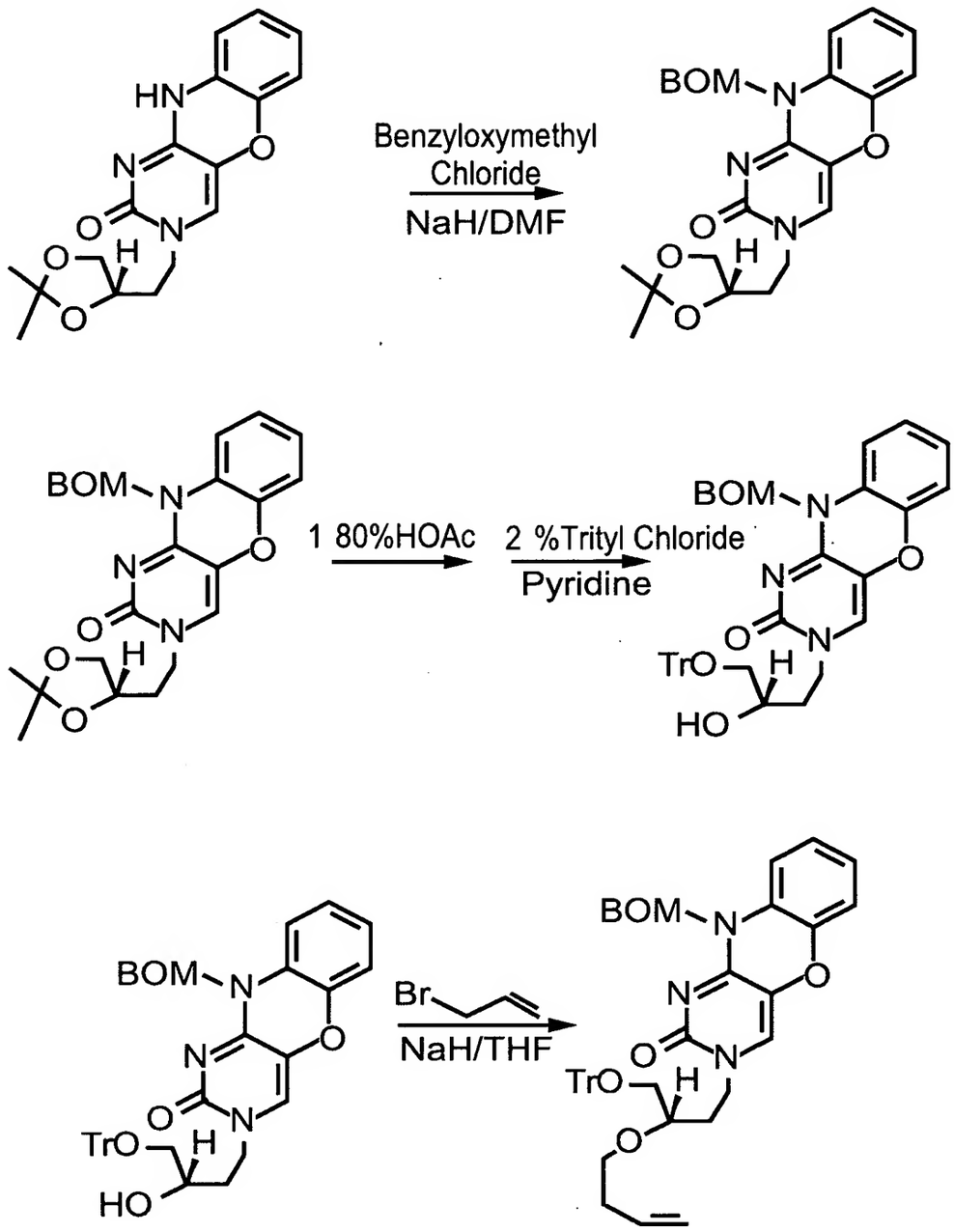

HN
O
N
O
N
O
H
O
O
Benzyloxymethyl
Chloride
NaH/DMF
BOM
1 80%HOAc
2 %Trityl Chloride
Pyridine
TrO
HO
Br
NaH/THF

Fig. 4a(iii)

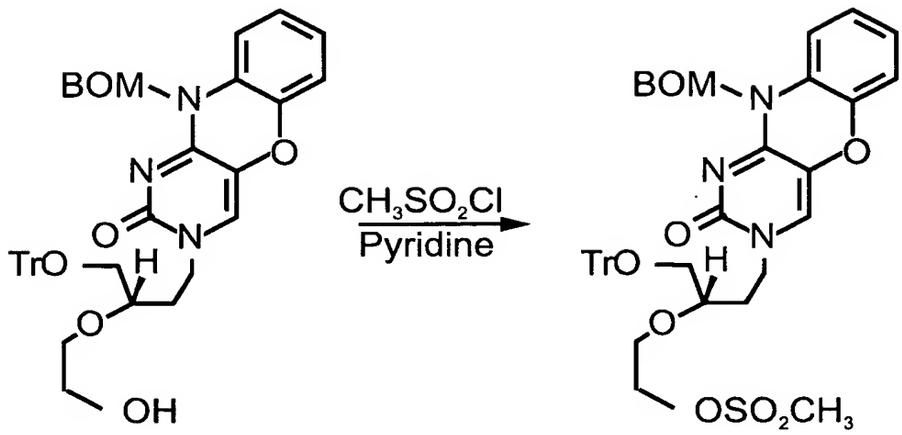

BOM
N
N
O
O
N
TrO
H
O
OH
CH3SO2Cl
Pyridine
BOM
N
N
O
O
N
TrO
H
O
OSO2CH3

Fig. 4a(iv)

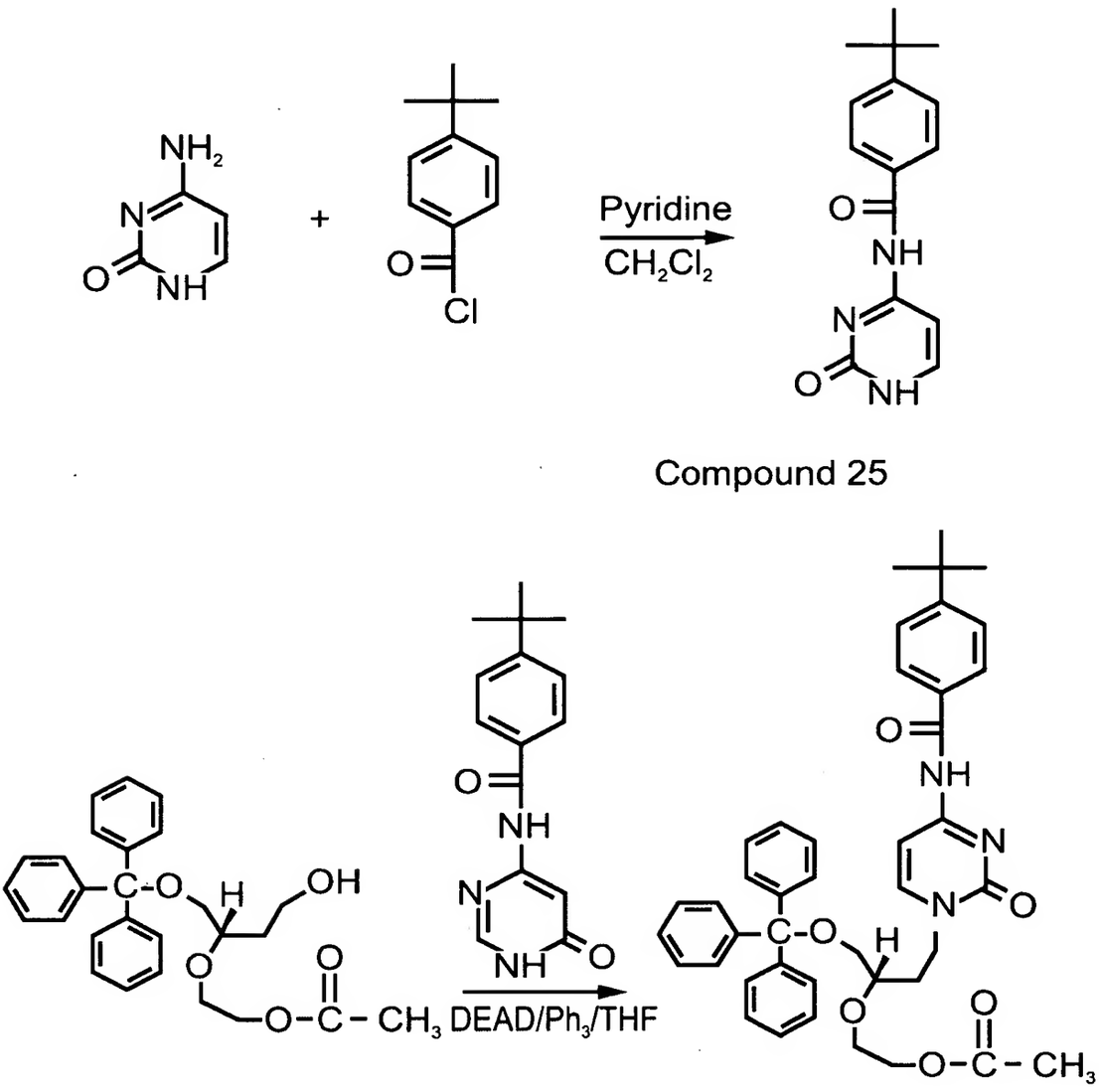

NH2
N
O
NH
+
O
Cl
Pyridine
CH2Cl2
O
NH
N
O
NH
Compound 25
C-O
H
OH
O
O
O-C-CH3
Compound 9
DEAD/Ph3/THF
Compound 26

Fig. 4b(i)

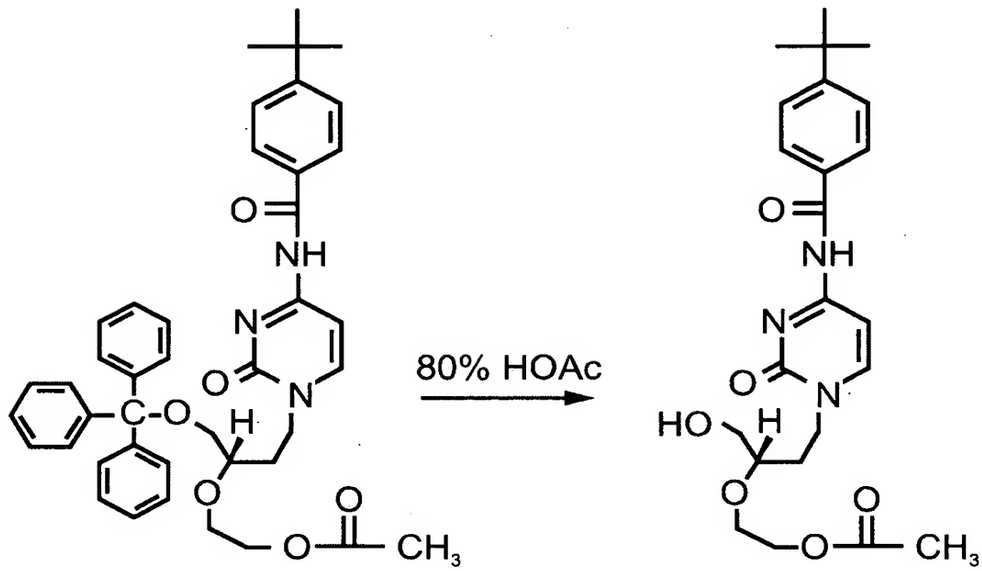
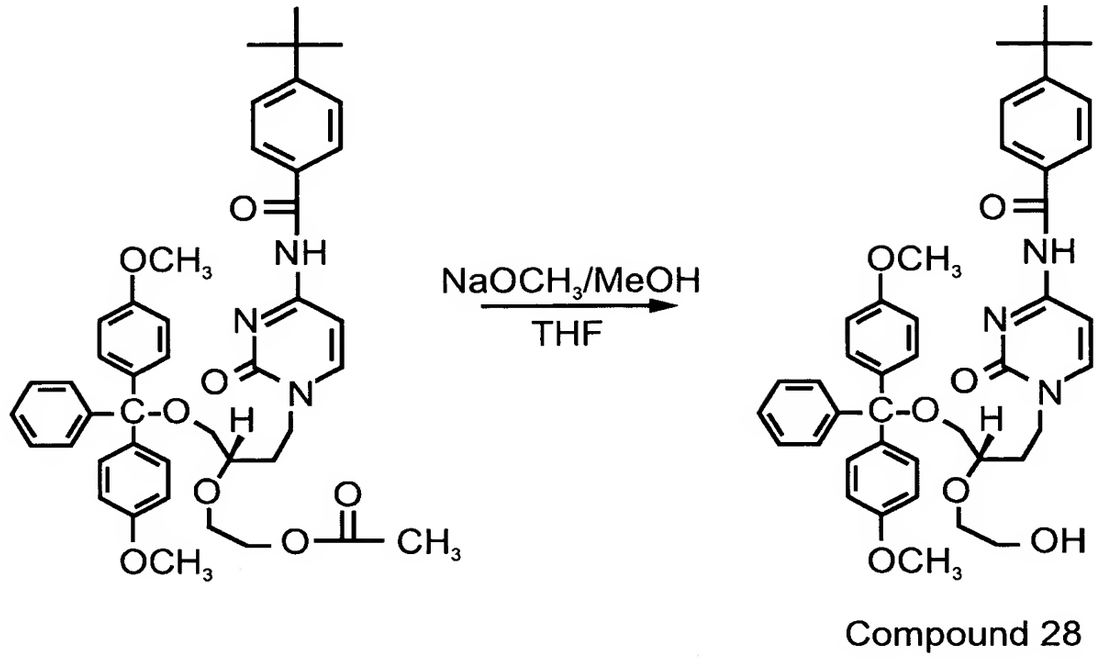
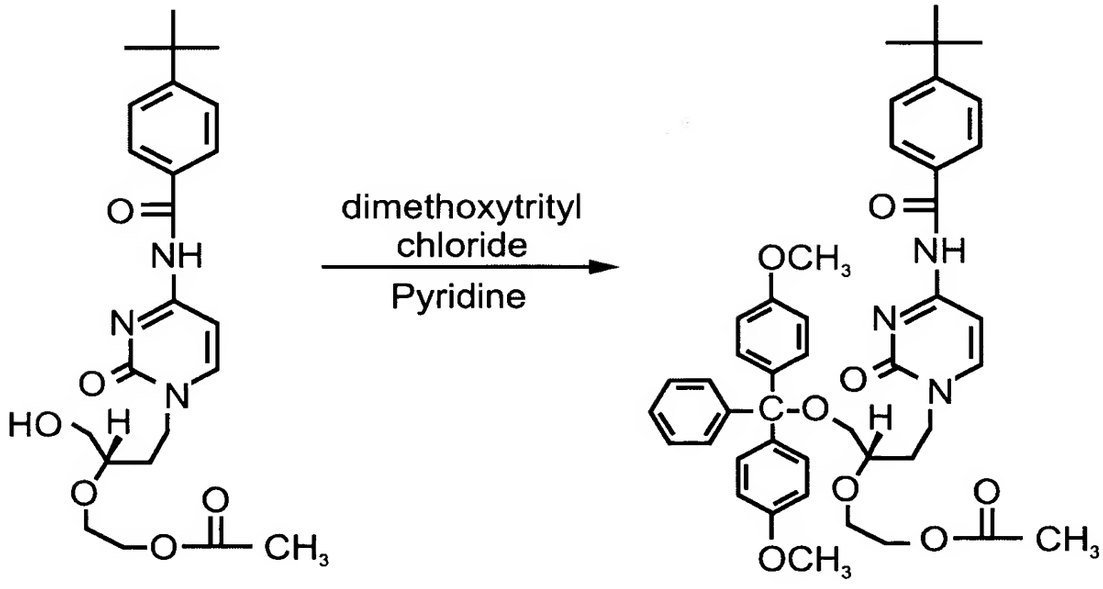


Fig. 4b(ii)

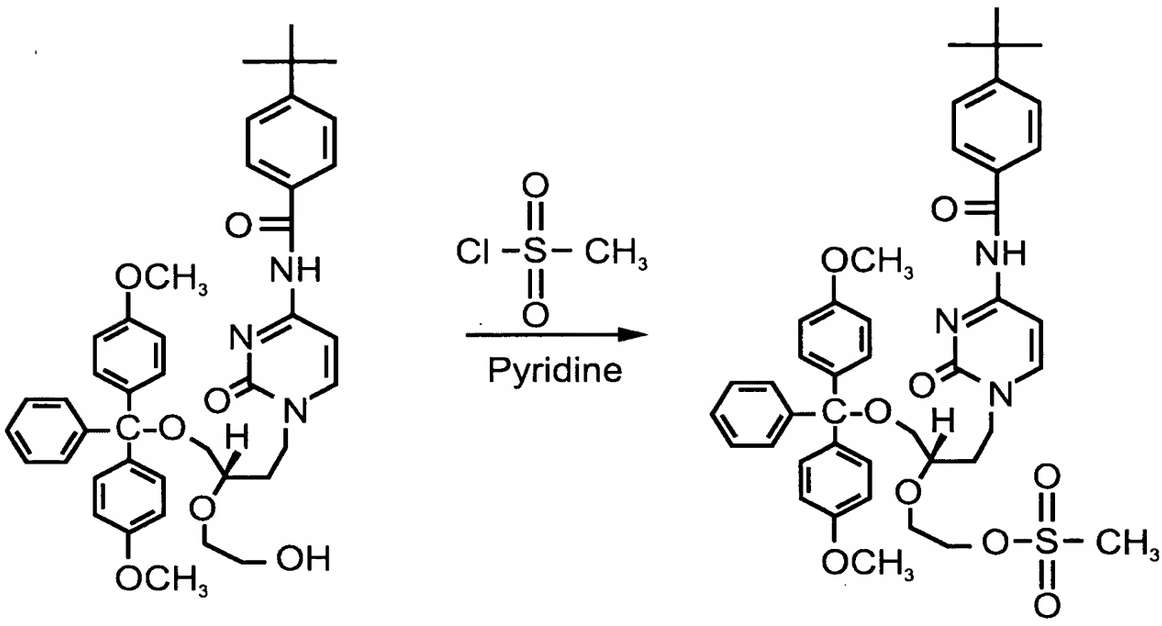


Compound 28



Compound 29

Fig. 4b(iii)



Compound 30

Fig. 4b(iv)

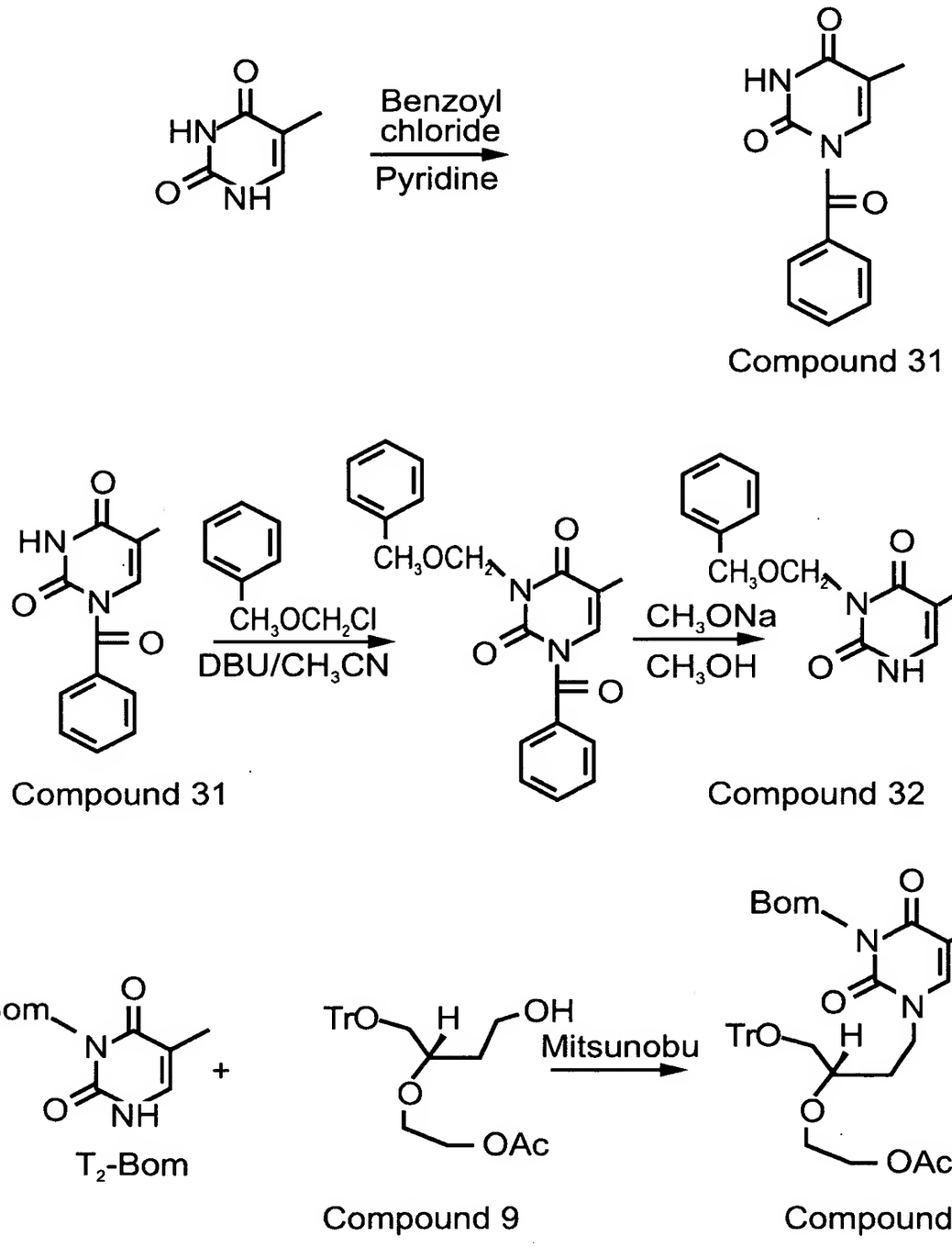
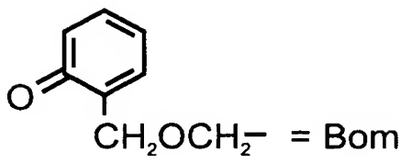
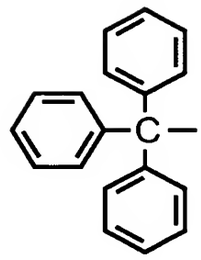

Benzoyl chloride
Pyridine
Compound 31
CH_3OCH_2Cl
DBU/CH_3CN
CH_3ONa
CH_3OH
Compound 31
Compound 32
Bom
T_2-Bom
TrO
H
OH
OAc
Mitsunobu
Compound 9
Compound 33

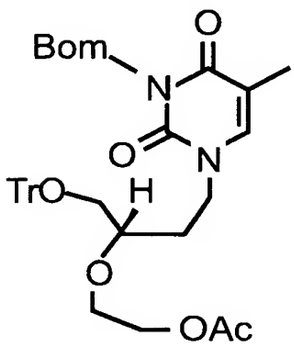
Fig. 5a(i)



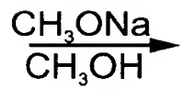
= Bom

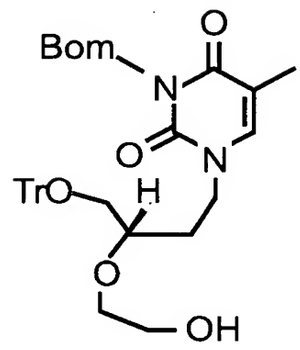


= Tr

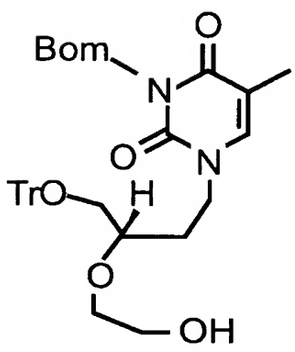


Compound 33

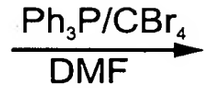


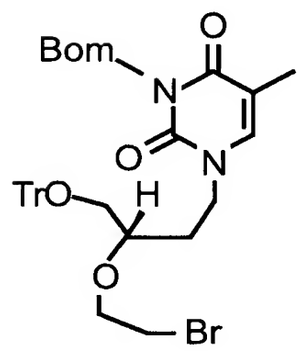


Compound 34



Compound 34





Compound 35

Fig. 5a(ii)

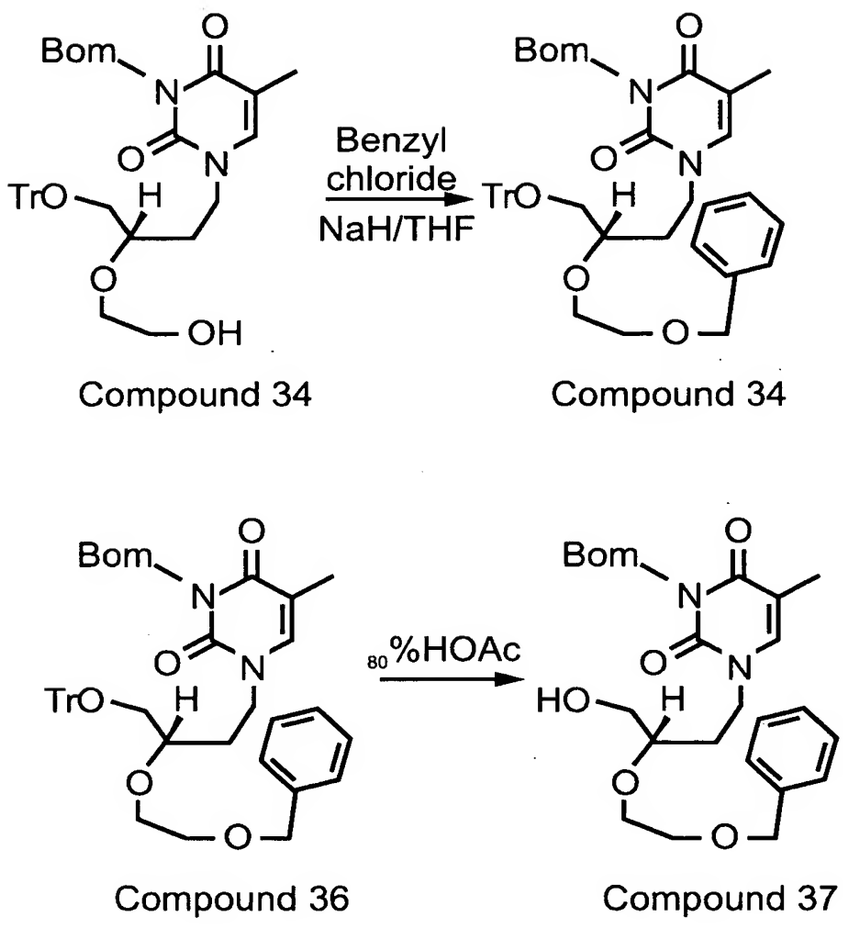
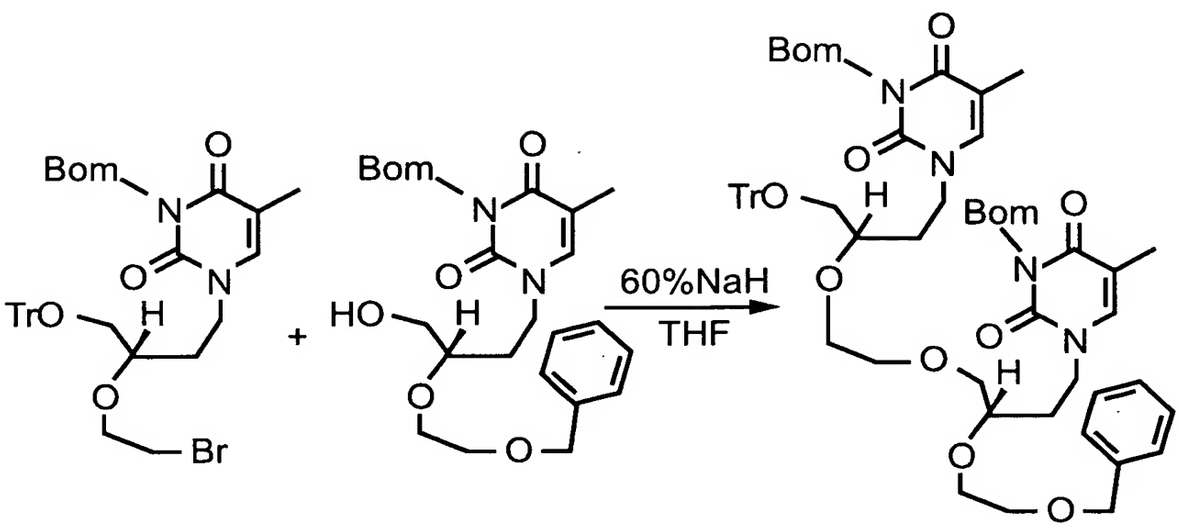
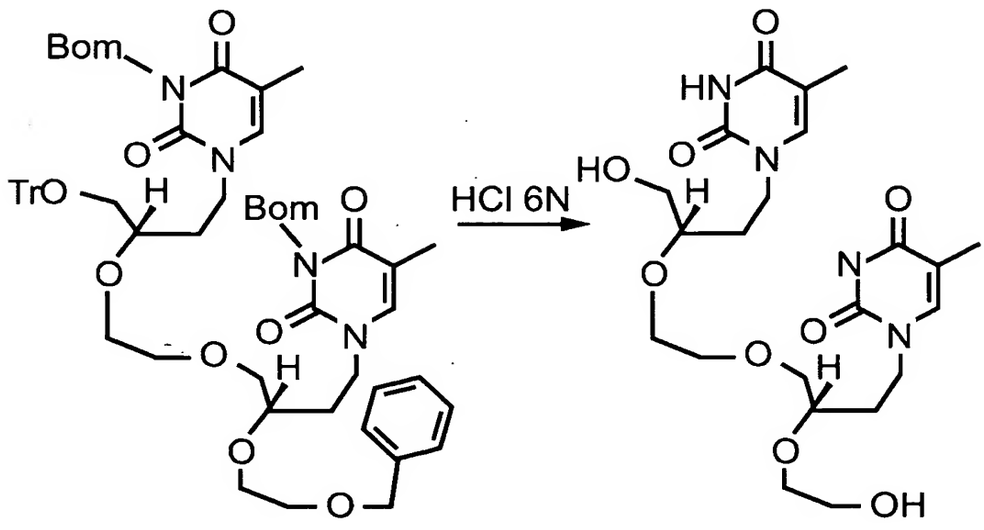

Bom
TrO
H
OH
Benzyl
chloride
NaH/THF
Compound 34
Compound 34
Compound 36
80%HOAc
HO
Compound 37

Fig. 6a(i)

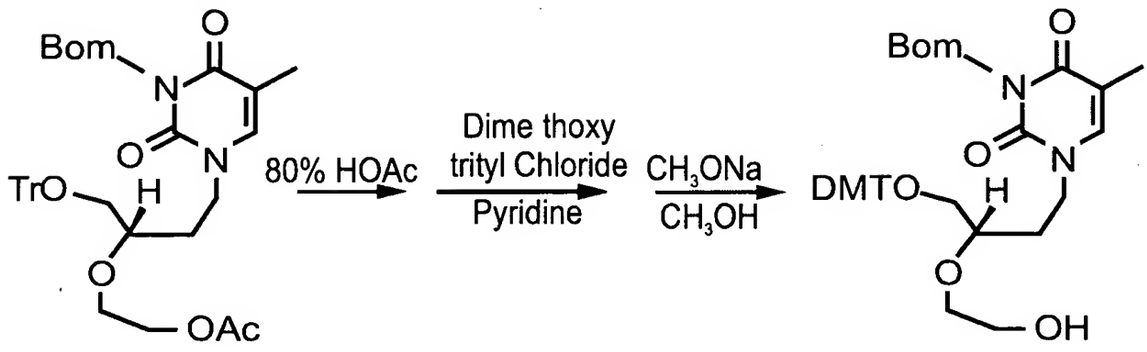


Compound 35 Compound 37 Compound 38



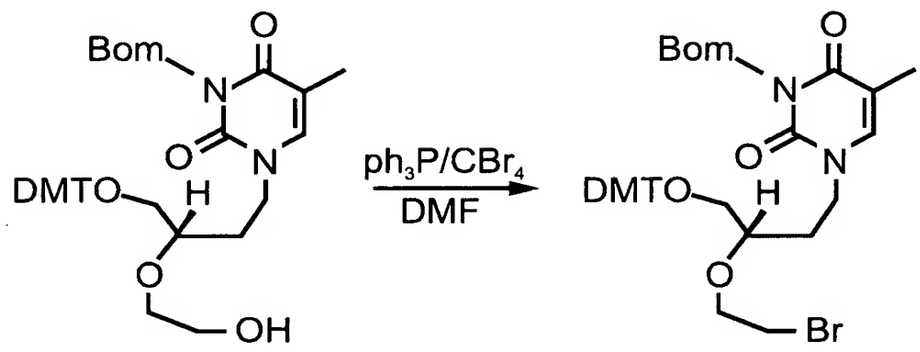
Compound 38 dimer-(PEG-T)

Fig. 6a(ii)



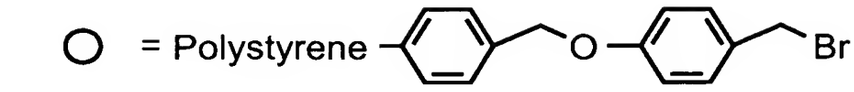
Compound 33 Compound 39

Fig. 7a

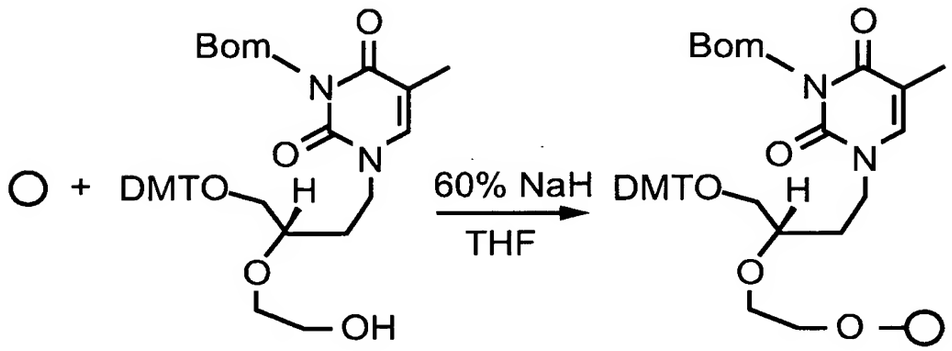


Compound 39 Compound 40

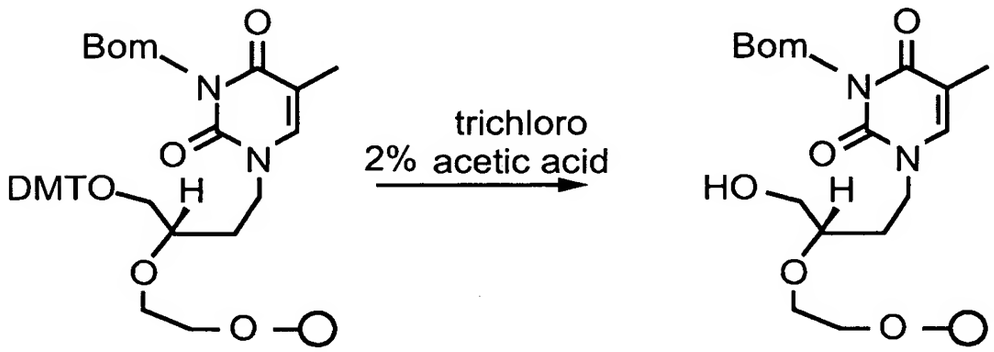
Fig. 7b



Wang resin



Compound 39 Compound 41



Compound 41 Compound 42

Fig. 7c

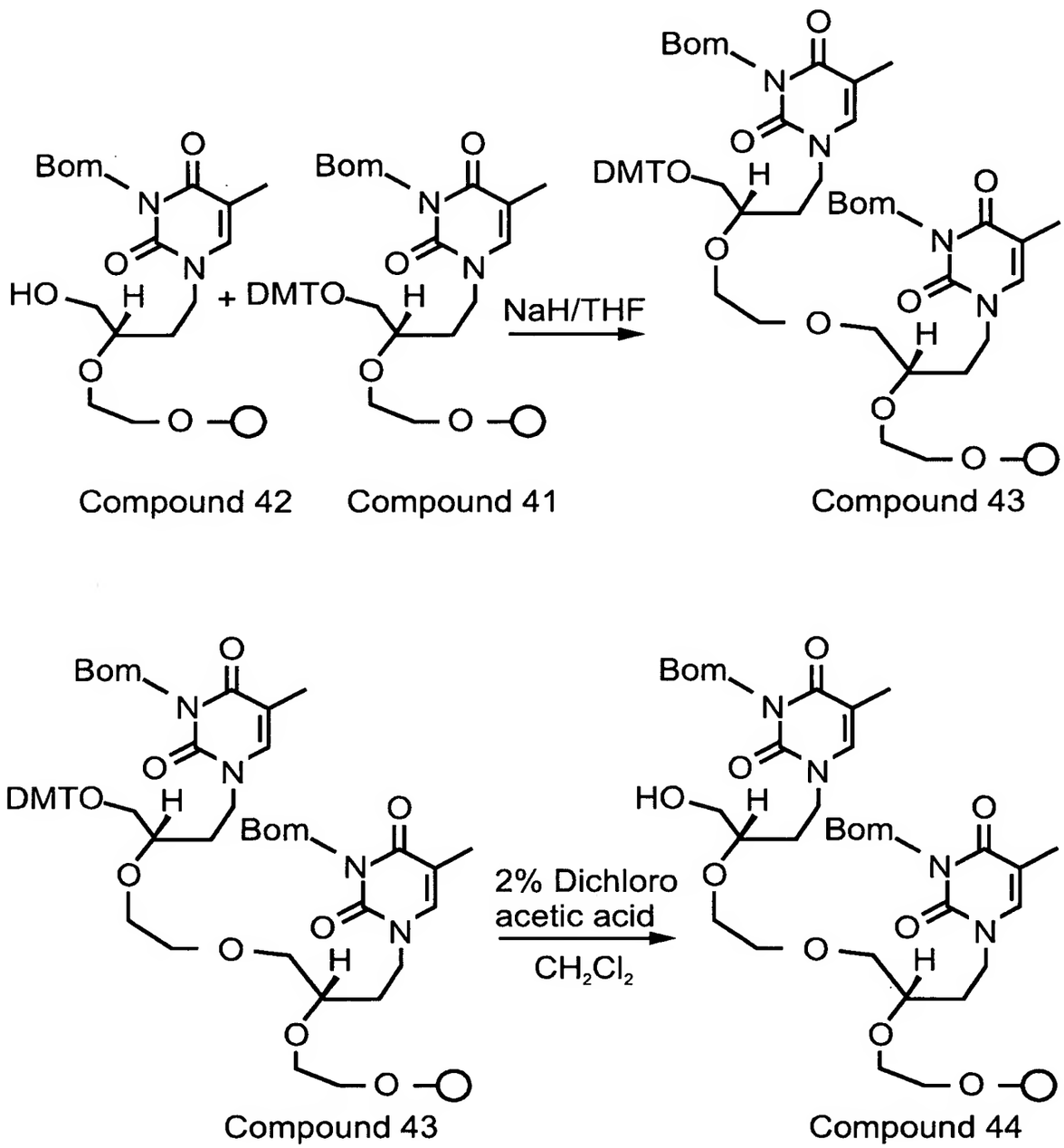

Bom
HO
+ DMTO
NaH/THF
DMTO
2% Dichloro
acetic acid
CH_2Cl_2
Compound 42
Compound 41
Compound 43
Compound 43
Compound 44

Fig. 7d

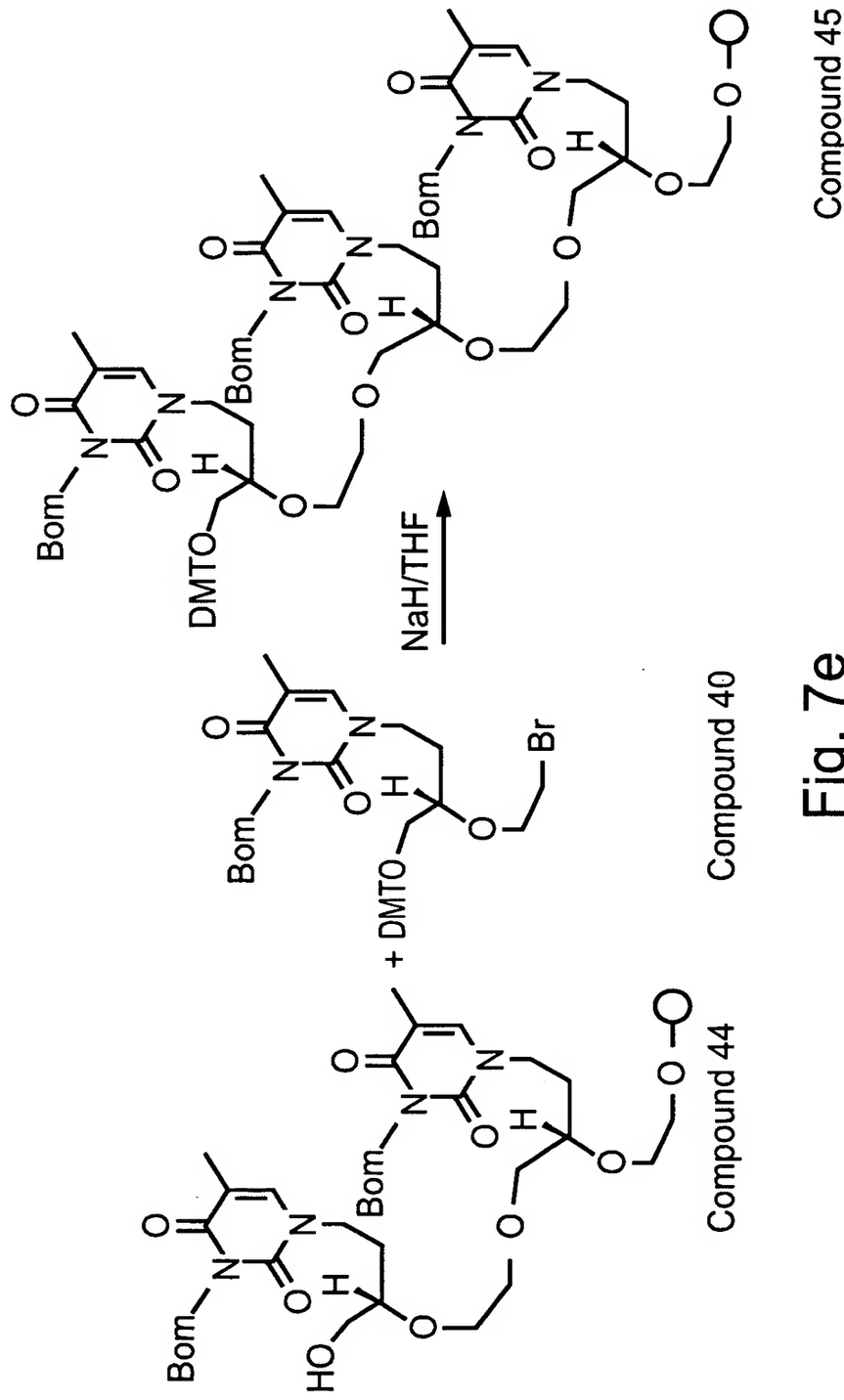
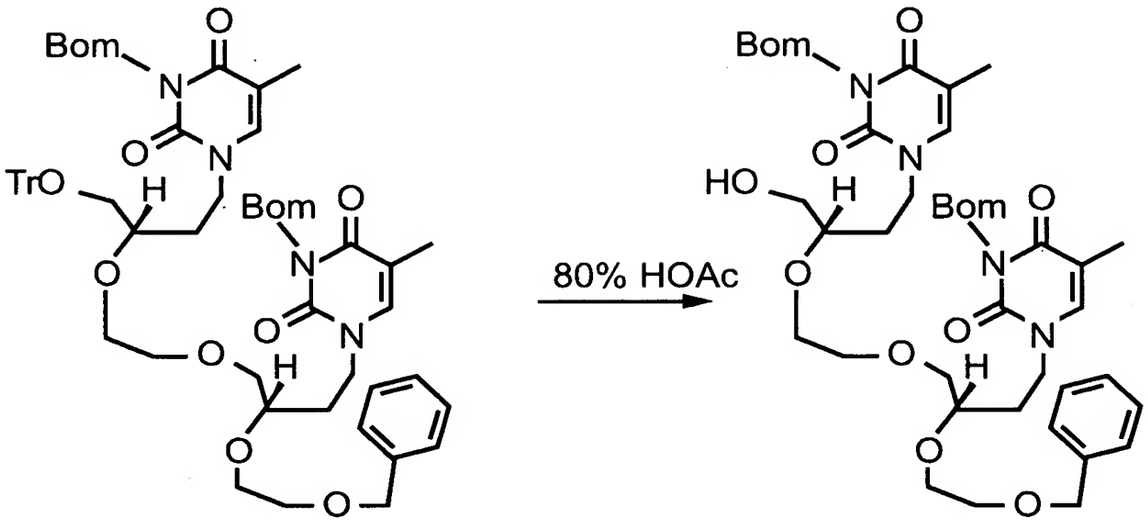
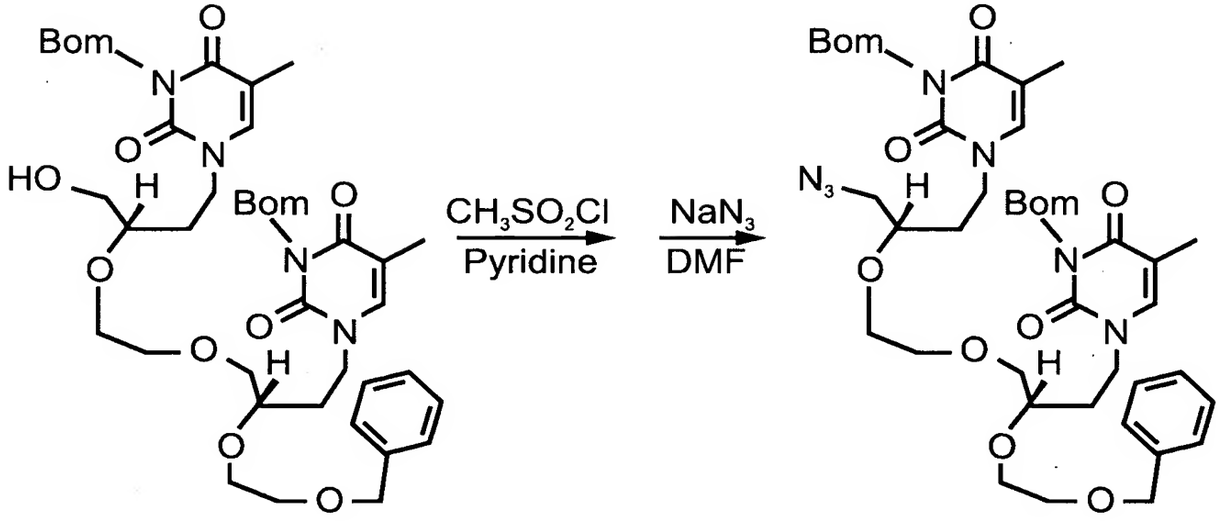

Compound 45
NaH/THF
DMTO
Bom
Compound 40
+ DMTO
Br
Compound 44
HO

Fig. 7e

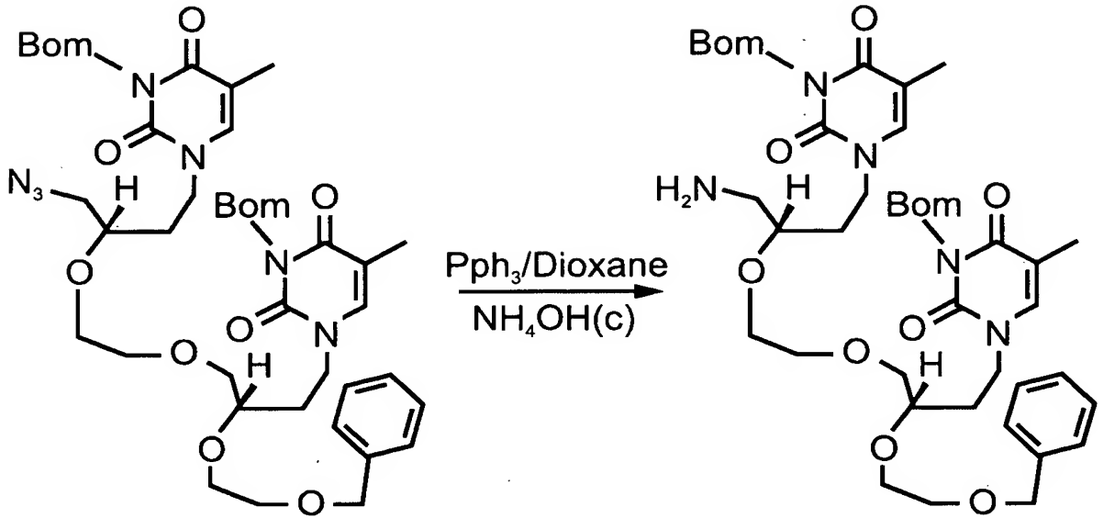


Compound 38 Compound 46

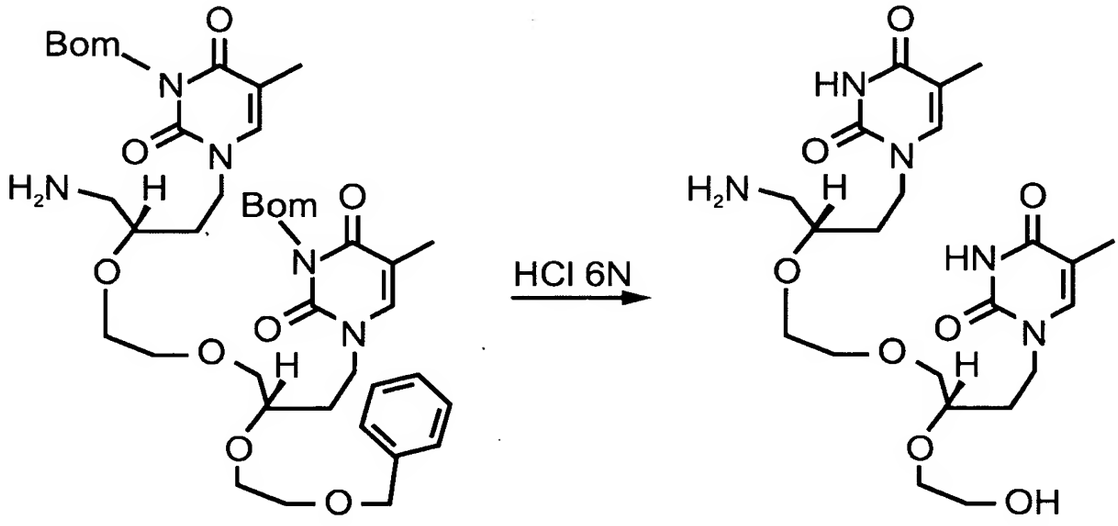


Compound 46 Compound 47

Fig. 8a



Compound 47 Compound 48



Compound 48 Compound 49

Fig. 8b

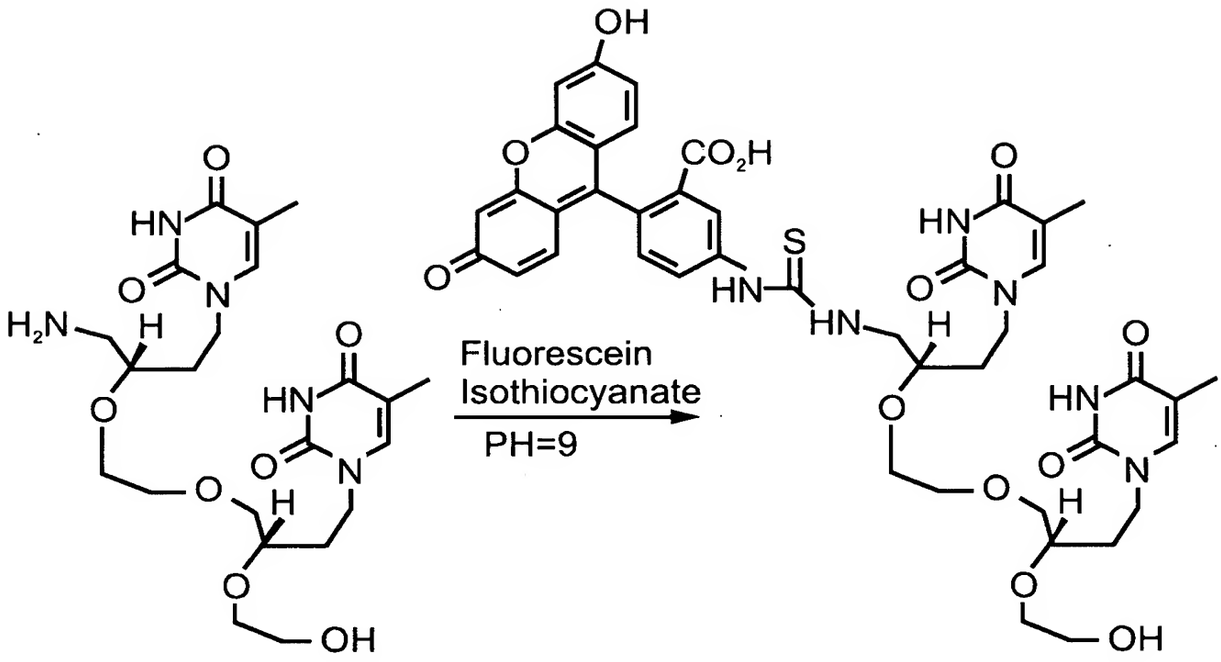
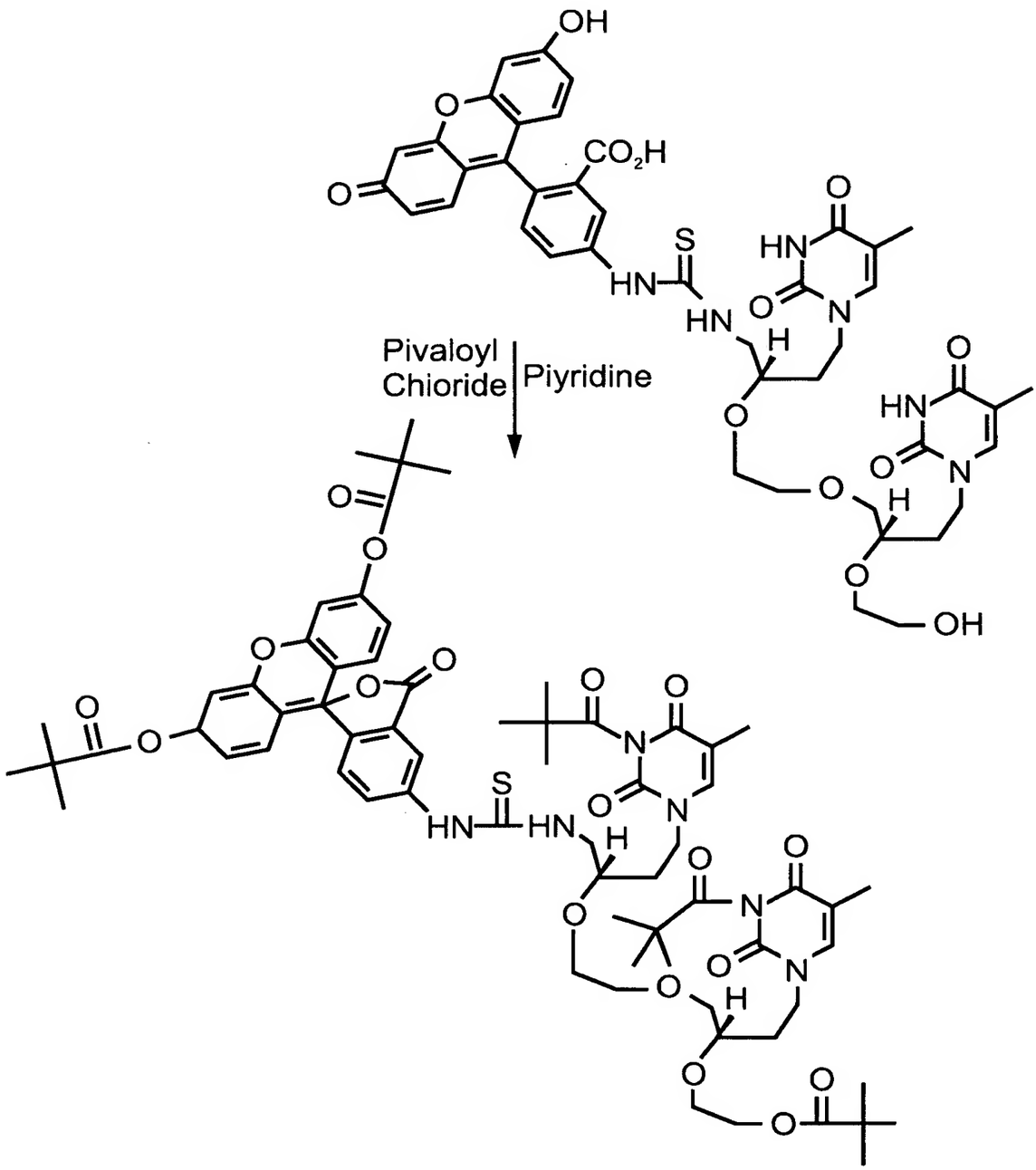
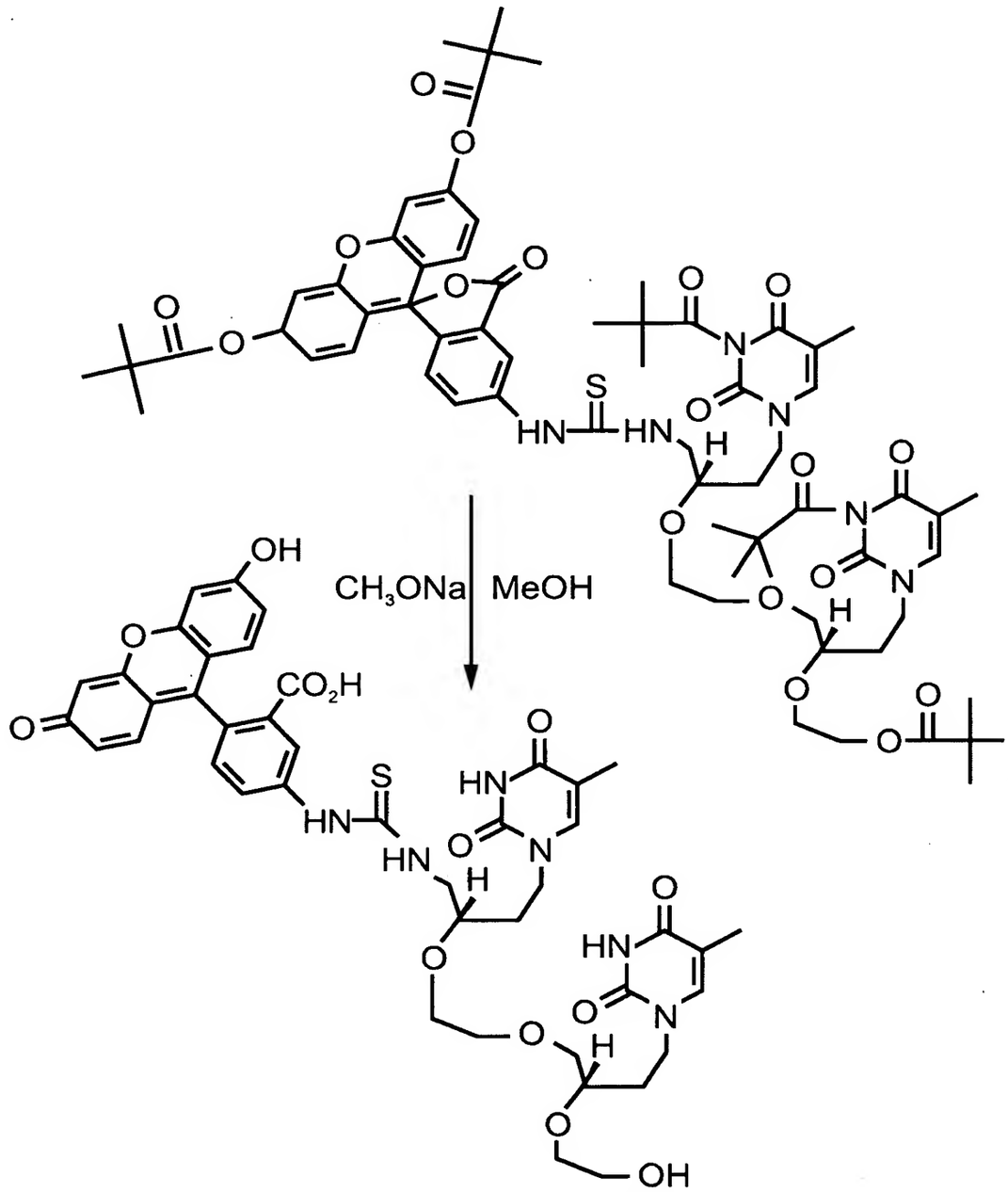

OH
O
CO2H
HN
S
HN
O
HN
O
N
H2N
H
HN
O
O
N
H
O
O
H
O
OH
Fluorescein
Isothiocyanate
PH=9
Compound 49
Compound 50

Fig. 8c (i)



Compound 51

Fig. 8c (ii)



Compound 50

Fig. 8c (iii)

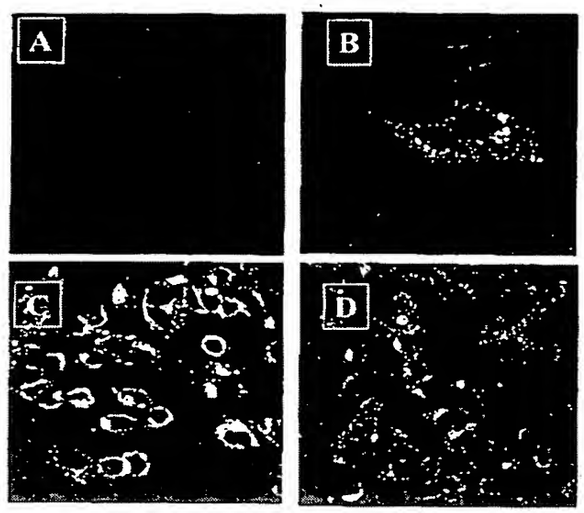
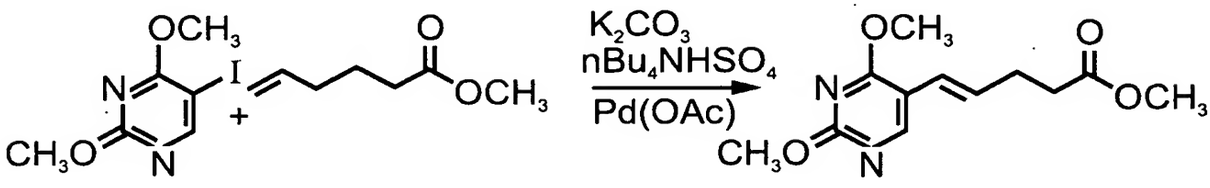
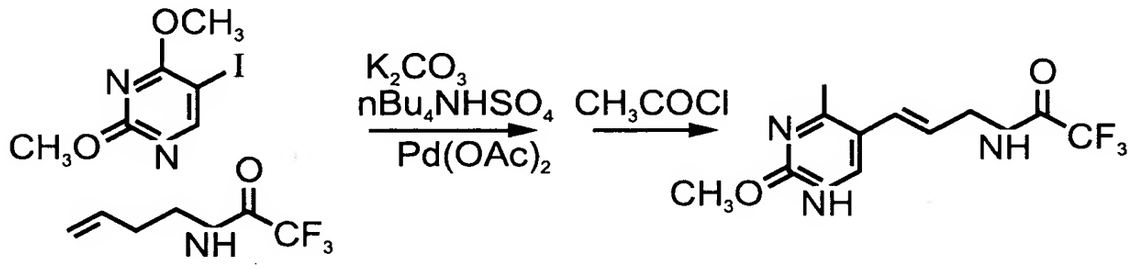


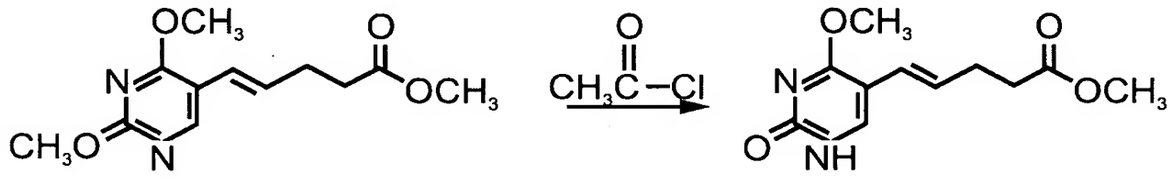
Fig. 9



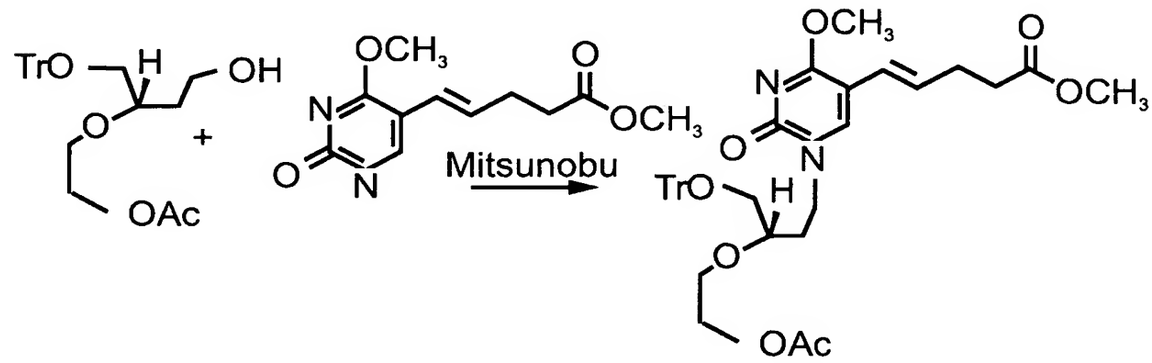
Compound 52 Compound 53



Compound 52 Compound 54



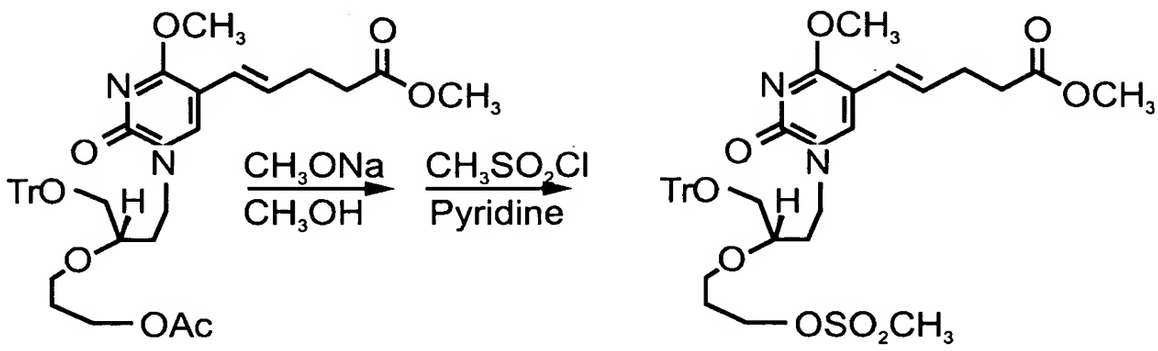
Compound 53 Compound 55



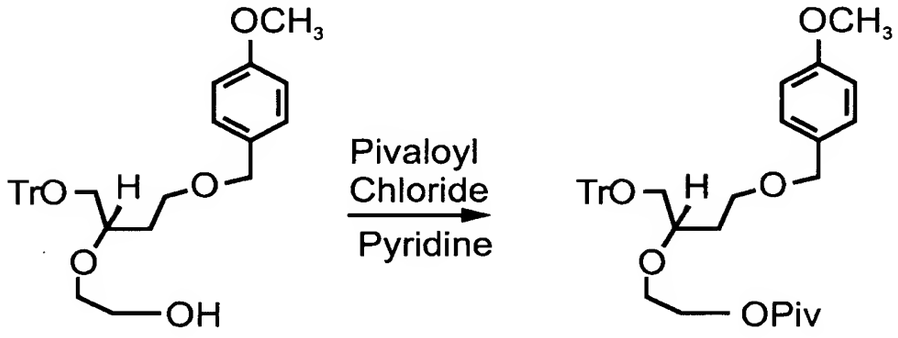
Compound 9 Compound 55 Compound 56

Fig. 10(i)

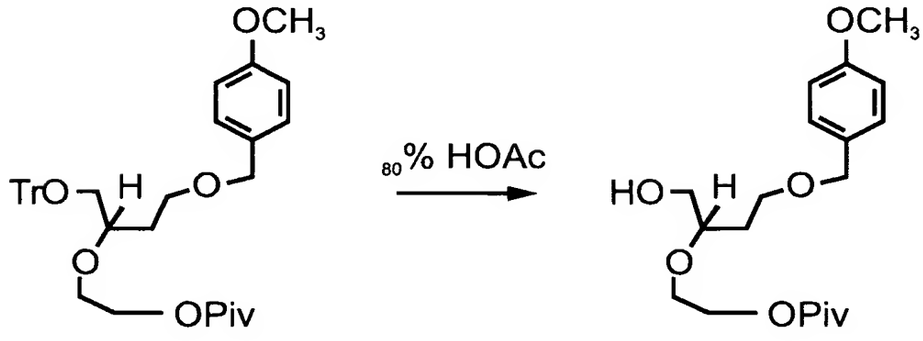
30/33



Compound 56 Compound 57

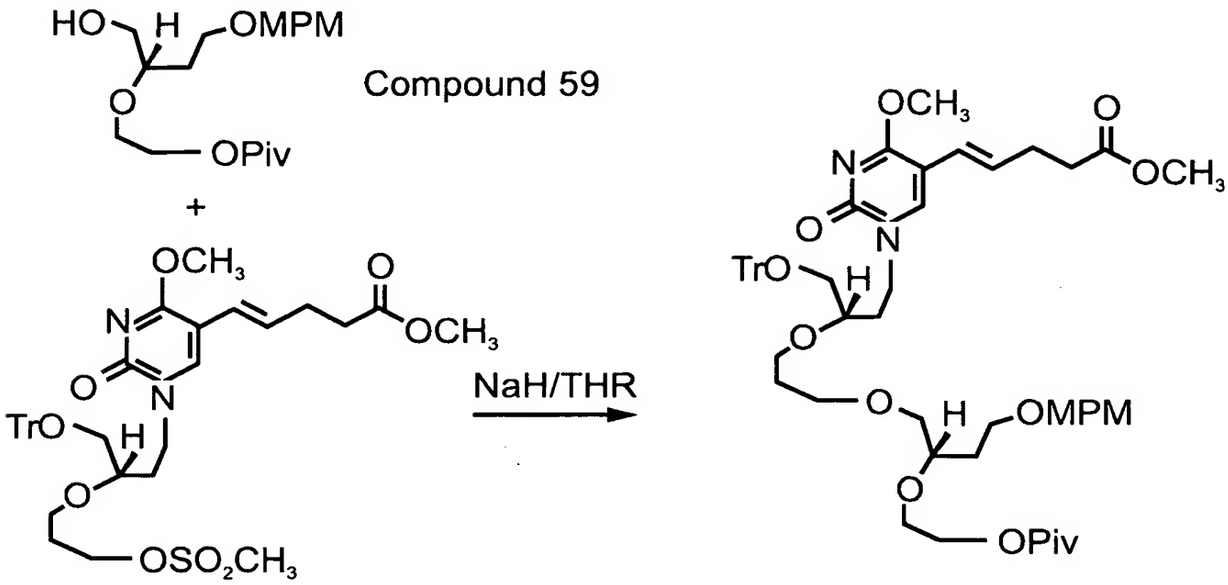


Compound 7 Compound 58



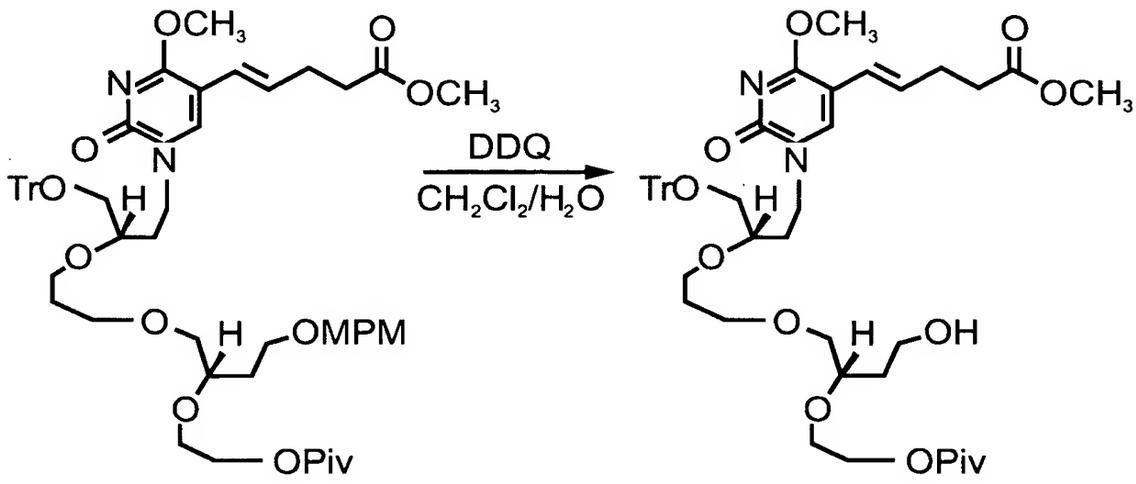
Compound 58 Compound 59

Fig. 10(ii)



Compound 57

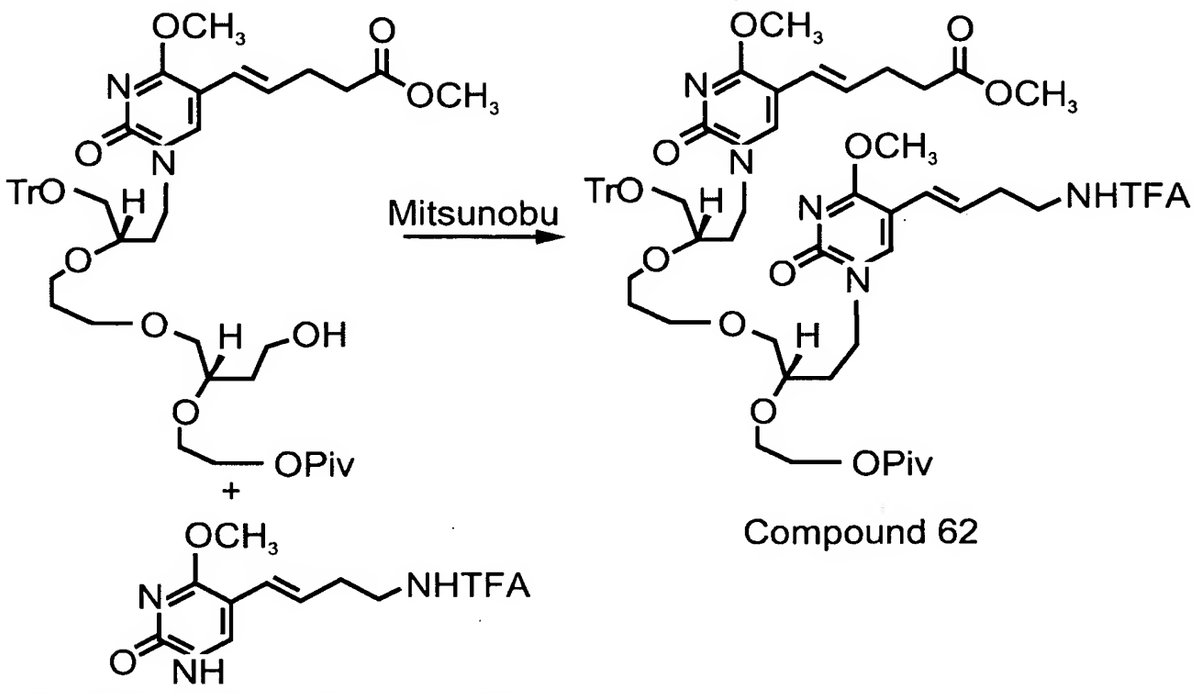
Compound 60



Compound 60

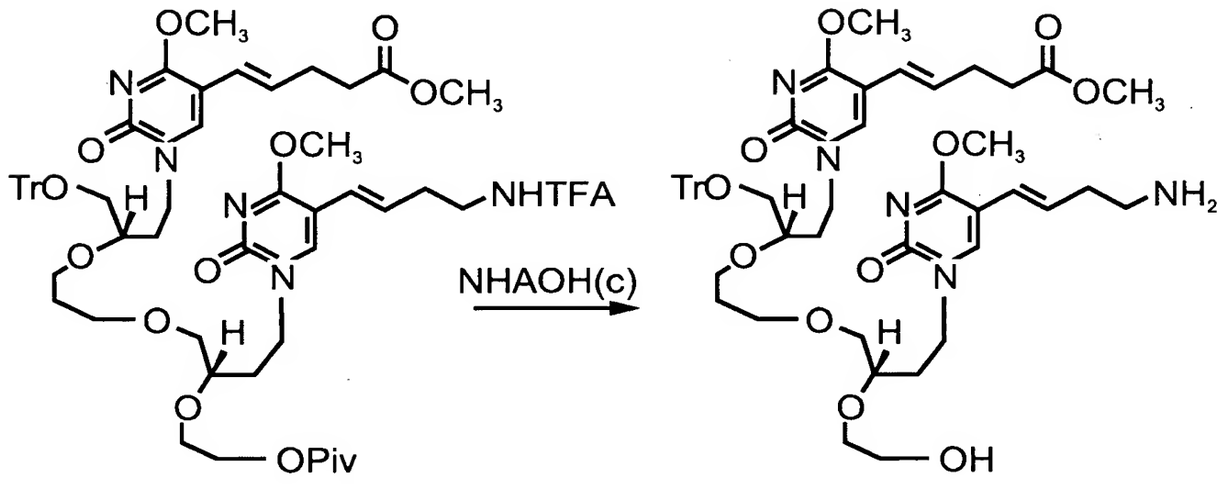
Compound 61

Fig. 10(iii)



Compound 54 + Compound 61

Compound 62

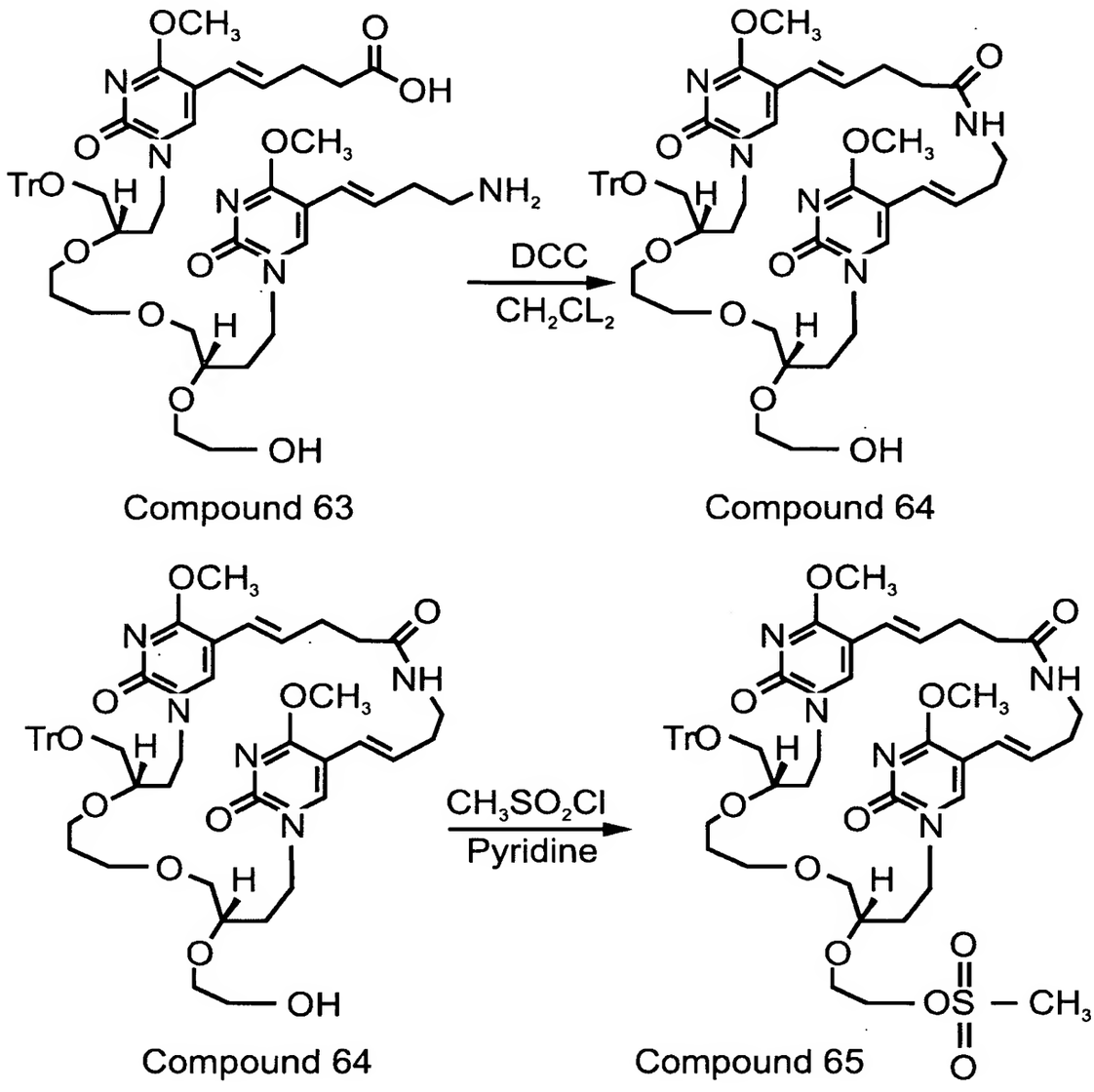


Compound 62

Compound 63

Fig. 10(iv)

33/33



Compound 63

Compound 64

Compound 64

Compound 65

Fig. 10(v)